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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/826,894	04/16/2004	Kenneth J. Cotton	620SC [2630.3176.001]	1424
7590 06/22/2005				
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		EXAMINER		
		DINH, PHUONG K		
		ART UNIT		PAPER NUMBER
		2839		

DATE MAILED: 06/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/826,894

Applicant(s)

COTTON ET AL.

Examiner

Phuong KT Dinh

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 April 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-35 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 22-29 is/are allowed.
- 6) ☒ Claim(s) 1-7, 9-11, 15, 16 and 19-21 is/are rejected.
- 7) ☒ Claim(s) 8, 12-14, 17 and 18 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Objections

1. Claim 11 is objected to because of the following informalities:
2. Claim 11, term "the other end of the ends is solid" is contradict of claim 1, since hole in only one end.
3. Appropriate correction is required.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-5, 9, 15-16, 19-21, 30-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zeigler, Jr. (U. S. Patent 3,678,447) in view of Brishka (U. S. Patent 3,398,391).
6. Regarding claims 1, 9, 15-16, 19-21, 30-35, Zeigler, see figures 1-3, discloses a pass through electrical connector assembly comprising: a body 80 of an electrically insulative and somewhat sidewall plastic or rubber material, column 2, lines 40-45, at least one through hole formed in the body and an electrical conductive pin 34 forced into the through hole and retained in the body and the pin 34 having first and second ends each having a recess therein structured to receive and have attached thereto a

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separate electrically conductive wire 58 and a pin 90, an intermediate solid portion 54 between the recess constructed to separate wires and provide a fluid-tight seal between the wires and the pin a tip 36 adjacent and the first end of the pin 34 a barb 38; a head 36 formed adjacent the second end of the pin, the lead having shoulder constructed to engage the body when the pin is forced into the through hole and a circumferentially continuous exterior between the ends press fit into the through hole of the body with an interference fit with the body and forming a fluid-tight seal between the pin and the body. Zeigler, Jr. discloses the claimed invention except for clear disclosure of line 17 interference fit. Brishka discloses contact interference fit into a yieldable body. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Zeigler to provide the interference fit as taught by Brishka so as to provide better sealing. Reference to permanent attachments and to wires does not define structurally over receptacles at 32, 36.

7. Regarding claim 2, Zeigler, Jr. discloses the body is a housing constructed of plastic.

8. Regarding claim 3, Zeigler, Jr. discloses the body is a housing constructed of synthetic rubber.

9. Regarding claim 4, Zeigler, Jr. discloses the body is made of low permeation material.

1. Regarding claims 5, 7, Zeigler, Jr. discloses the claimed invention except for discloses a flange having a hole complementary to the body and the body is received in the hole in the flange and sealed to the flange. Brishka discloses a flange 80 and seal to

the flange at. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Zeigler, Jr. to provide the flange and seal to the flange so as to hold and seal connector to a panel.

10. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Zeigler, Jr. (U. S. Patent 3,678,447) in view of Brishka (U. S. Patent 3,398,391) and further in view of Tunn (U. S. Patent 6,679,726).

11. Regarding claim 6, Zeigler, Jr. and Brishka disclose the body comprises a snap latch to retain the body in the flange. Tunn discloses the body comprises a snap latch to retain the body in the flange at 22, see figure 1. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Zeigler and Brishka to provide the snap latch to retain the body in the flange as taught by Tunn so as to provide support for the connector.

12. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Zeigler, Jr. (U. S. Patent 3,678,447) in view of Brishka (U. S. Patent 3,398,391) and further in view of Scott (U. S. Patent 2,152,504).

13. Regarding claim 10, Zeigler, Jr. and Brishka disclose the claimed invention except for the pin has a separate blind hole with a circumferentially continuous sidewall opening into each of the ends of the pin and constructed to receive a separate wire in each blind hole permanently attached therein. Scott, see figure 1 at 15, 16, discloses the pin and constructed to receive a separate wire in each blind hole permanently attached therein. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Zeigler and Brishka to provide the pin and

constructed to receive a separate wire in each blind hole permanently attached therein so as to secure the wires.

Allowable Subject Matter

14. Claims 8,12-14, 17-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

15. Claims 22-29 are allowed.

16. The following is an examiner's statement of reasons for allowance:

17. None of the reference discloses the body has at least two through holes each formed in the body.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

18. Applicant's arguments with respect to claims 1-7, 9-11, 15-16, 19-21, 30-35 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

19. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong KT Dinh whose telephone number is 571-272-2090. The examiner can normally be reached on 8 -5, 5 days a week.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TC Patel can be reached on 571-272-2098. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'PHUONG DINH', is written over a stylized, cursive 'M' shape.

Phuong Dinh
June 14, 2005.

Phuong KT Dinh
Primary Examiner
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